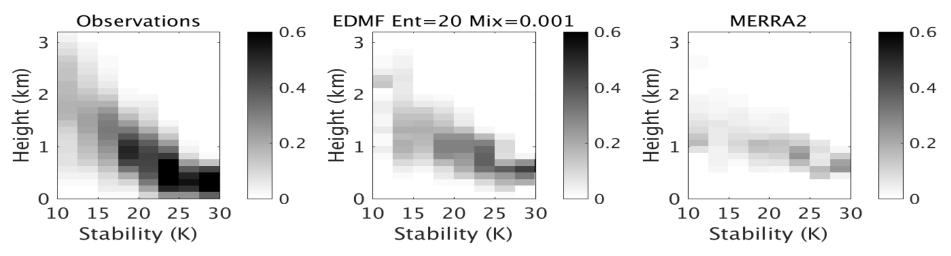


## New Methodology to evaluate EDMF forced by MERRA Re-Analysis

**Goal**: To develop a new methodology to evaluate Single Column Models (SCMs) and parameterizations against satellite data in realistic settings.

**Results**: 500 EDMF SCM simulations (June 2007) between Los Angeles and Hawaii forced by MERRA-2 show that new methodology is effective and that EDMF compares well against CloudSat observations.



**Significance**: New method will help develop and evaluate parameterizations (e.g. EDMF) against satellite observations in realistic settings.

Smalley, M., K. Suselj, M. Lebsock and J. Teixeira, 2019: A Novel Framework for Evaluating and Improving Parameterized Subtropical Marine Boundary Layer Cloudiness. *Mon. Wea. Rev.*, **147**, 3241-3260.